

**Agency Activity Inventory**  
**by Agency**  
**Appropriation Period: FY 2004-05**

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1474 Natural Resources and Environmental Research and Education: Master  
Wildlifer/Master Naturalist**

Conducts statewide Master Wildlifer programs to improve wetland and watershed management as a means of preserving water quality and wetland and aquatic wildlife habitat. Conducts statewide South Carolina Master Naturalist programs to increase the public's understanding and awareness of natural resource management and to build a network of natural resource ambassadors. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$215,354	\$114,522	\$59,819	Yes	\$41,013	4.24

**Expected Results:**

Develop and deliver: Statewide Master Wildlifer short courses for forest and farm owners in South Carolina Standardized training for Master Naturalists, S.C. Department of Natural Resources biologists and administrators, and other interested agencies. Explore alternative methods of delivering Master Wildlifer, primarily over satellite and as a web-based course. Develop local chapters and conduct South Carolina Master Naturalist training programs.

**Outcome Measures:**

Develop and deliver educational programs on Master Wildlifer and Master Naturalist to approximately 520 farm and forest owners, county Extension agents and potential volunteers.

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**1475 Rural Community Enhancement and Improvement**

Engage in rural community enhancement and improvement activities that are linked to community image, sustainable economic development, and improved quality of life. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$556,028	\$248,865	\$182,226	Yes	\$124,937	12.91

**Expected Results:**

Develop and conduct community improvement programs, such as the S.C. Design Arts Partnership. This collaborative effort by Clemson University, the S.C. Downtown Development Association, and the S.C. Arts Commission helps rural communities design improvements for architectural, landscape, historical, and preservation projects. Engage citizens in agritourism and agribusiness development and community promotion

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projects, such as agricultural festivals, agriculture and horticulture displays at county fairs, Farm City Week celebrations, public landscaping projects, and hiking trails. Facilitate the work of local task forces and groups that formulate action plans and policies.

**Outcome Measures:**

Develop and deliver educational programs on community enhancement to approximately 4,000 citizens engaged in economic and tourism development, nonprofit organization boards, and groups.

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Natural Resources

**1476 Government and Public Affairs Research and Education**

Conducts applied research and education in public policy areas to promote discussion and action on critical issues facing South Carolina, the Southeast and the nation. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$355,365	\$188,989	\$98,702	Yes	\$67,674	6.99

**Expected Results:**

Distribute information on issues affecting South Carolina today and those that will be important in the future via the Jim Self Center on the Future web site. Present information on educational finance and operational policy to appropriate state and local leaders to enhance the public debate. Enlarge the civic discussion in South Carolina and increase public participation in the governmental operations.

**Outcome Measures:**

Deliver programs to community, business, and citizen organizations on the information developed at the Thurmond Institute. Develop and deliver educational programs to 400 youth leader through our collaborative agreement with the Boys & Girls Clubs of America. Increase partnerships with 5 organizations such as the Palmetto Institute to examine trends that will influence the future of South Carolina.

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Natural Resources

**1477 Agricultural Education Teachers' Salaries (pass-thru)**

Provide statewide leadership for agricultural education programs in the public schools for South Carolina. Agricultural Education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. The program provides Future Farmers of America (FFA) and adult education activities, such as leadership development, work experiences, internship and job training. Section 72.44 of the SC Code of Laws authorizes

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Clemson-PSA to conduct Agricultural Education as assigned by law.

Total	General Funds	FY 2004-05		Other Funds	FTEs
		Federal Funds	FM		
\$566,020	\$403,825	\$0	N/A	\$162,195	

**Expected Results:**

Coordinate and structure agricultural education programs, Future Farmers of America (FFA), and the S.C. Association of Young Farmers activities in the state's public schools.

**Outcome Measures:**

Agricultural education programs will be conducted in South Carolina high schools. Other measures will include participation in FFA and SCYFFA activities, PACT score improvement, job placement and pursuit of higher education.

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**1478 Administration**

Administration for Clemson University-PSA is an aspect of our organization that is constantly monitored for indications of its efficiencies and effectiveness. Our organizational functions are statewide and highly diversified to meet the requirements of research and Extension. Our research facilities are in numerous locations on-campus and across the state. Additionally, much of our administrative functions are focused on generating outside research funding. The regulatory functions of PSA require very precise management of records and documents for federal and state regulations. These functions are in addition to the traditional administrative functions of account management, clerical support, building maintenance, utilities and communication costs, auditing, and accountability. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

Total	General Funds	FY 2004-05		Other Funds	FTEs
		Federal Funds	FM		
\$4,838,630	\$3,941,935	\$412,619	Yes	\$484,076	39.08

**Expected Results:**

The administration functions of our division are expected to give our organization: An adequate and safe work environment to carry out state-of-the-art research, development and information dissemination Support for all state, federal and university mandated compliance regulations for animals, plants and human research A fully compliant financial audit for federal, state or institutional requirements

**Outcome Measures:**

Increase the rate of return on state dollars from outside funding sources for research and outreach activities. Increase the effectiveness and efficiency of all functions of PSA. Reduce or eliminate financial audit findings not in compliance with federal, state or institution regulations. Reduce or eliminate audit findings not in compliance with federal, state or institution regulations for research on animals, plants and humans. Obtain and record all relevant data in support of regulatory activities across the state to ensure a safe and adequate food and water supply and address environmental issues.

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Natural Resources

**1479 Distance Education: Radio Productions**

Delivers information on Clemson research and educational programs to targeted and mass audiences.

Total	General Funds	FY 2004-05			FTEs
		Federal Funds	FM	Other Funds	
\$117,197	\$82,048	\$0	N/A	\$35,149	2.16

**Expected Results:**

Produce radio programs and a supporting web site to deliver research and educational information.

**Outcome Measures:**

Reach an average of 25,000 listeners daily through public radio programs.

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Natural Resources

**1480 Distance Education: Television, Web and Print Productions**

Delivers information on Clemson research and educational programs to targeted and mass audiences.

Total	General Funds	FY 2004-05			FTEs
		Federal Funds	FM	Other Funds	
\$1,156,893	\$1,156,893	\$0	N/A	\$0	25.94

**Expected Results:**

Produce television programs and web sites to deliver research and educational information, with supporting print materials as needed.

**Outcome Measures:**

Reach an average of 400,000 households weekly through public television programs.

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**1481 BioEngineering Alliance**

The Bioengineering Alliance of South Carolina is a unique state program that promotes biomedical engineering education and research among Clemson University, the University of South Carolina, and the Medical University of South Carolina. The Alliance shares faculty, research facilities, and other resources to foster interdisciplinary research among the participating campuses. The BioEngineering Alliance was established as a separate program within Clemson-PSA by the FY 1990 - 1991 General Appropriations Act.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$88,415	\$76,102	\$0	N/A	\$12,313	1.05

**Expected Results:**

Through the use of shared facilities, laboratories, and expertise, it is expected that new innovations, procedures and products will be developed in such topical areas as customized prostheses, topographic analysis, the interactions between orthopedic bearing surfaces and other yet to be discovered breakthroughs.

**Outcome Measures:**

Several new procedures and biomedical devices have already been produced by this unit; therefore, there will be a continuing focus on developing new procedures, products and patents. As is usual for a research-based activity, emphasis will be given to publications and journal articles that will expand knowledge from the results of this research.

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Functional Group: Conservation,  
Natural Resources**1482 Sustainable Agricultural Production Systems: Horticultural Crops**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of horticultural crop management systems. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$4,032,921	\$2,515,028	\$927,779	Yes	\$590,114	75.64

**Expected Results:**

Conduct research and educational programs to: Improve profitability of horticultural cropping systems. Reduce negative environmental impacts of horticultural cropping systems. Encourage producers to adopt new horticultural production systems.

**Outcome Measures:**

Develop and deliver educational programs on horticultural crop production to approximately 5,800 agricultural producers and Extension personnel. Share research discoveries of new agricultural products, policies and

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procedures through disclosures, patents, licenses, and publications.

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Natural Resources

**1483 The South Carolina Institute for Energy Studies**

The South Carolina Institute for Energy Studies (SCIES) is a state chartered research and development organization established in 1984 via the FY 1984 - 1985 General Appropriations Act. SCIES is administratively housed at Clemson University, reporting to the Vice President for Research.

	<b>FY 2004-05</b>					<b>FTEs</b>
<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>FM</b>	<b>Other Funds</b>		
\$74,297	\$63,337	\$0	N/A	\$10,960	2.05	

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**Expected Results:**

Through interaction with all departments at Clemson University, all universities within South Carolina, state agencies, federal agencies, and private industry throughout the nation: Promote energy research and development in and for the state, Transfer energy technology developed by others to South Carolina applications, Contribute to national energy issues in areas of excellence, Promote state-wide energy education activities

**Outcome Measures:**

The SCIES project activity is focused on applications-oriented projects with short-term payout. Research activities necessary to support the applications may become as fundamental as required but are always directed to support the application.

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Natural Resources

**1484 Rural Community Leadership Development**

Conducts Palmetto Leadership training that provides community leadership development training, facilitates strategic planning for economic development, public issues education, youth leadership, and serves as a collaborative agency with other leadership program sponsors. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

	<b>FY 2004-05</b>					<b>FTEs</b>
<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>FM</b>	<b>Other Funds</b>		
\$834,043	\$373,298	\$273,339	Yes	\$187,406	17.37	

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**Expected Results:**

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Develop and deliver educational programs on leadership, team-building, strategic planning, and effective operations for civic and community leaders and nonprofit organizations. Promote participation in collaborative task forces to address build leadership skills and address statewide economic and community development issues. Conduct youth leadership programs and workshops to enhance leadership, communication, team building, and citizenship skills.

**Outcome Measures:**

Develop and deliver educational programs on leadership development to approximately 4,200 municipal and community leaders and nonprofit organization boards. Recruit participating individuals, groups and agencies to collaborate to address statewide economic and community development issues. Encourage participating individuals, groups and agencies to raise local funding to support community and leadership development programs in their communities.

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Natural Resources

**1485 Natural Resources and Environmental Research and Education: Recreation and Tourism**

Conducts statewide educational programs to promote environmentally sound natural resource recreation and tourism opportunities in South Carolina. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$198,752	\$99,547	\$60,849	Yes	\$38,356	4.03

**Expected Results:**

Develop and deliver educational programming on the interaction of water quality and recreation and tourism activities, such as paddle sports, swimming and fishing. Provide additional training to nature-based tourism professionals to ensure that the content and delivery of their educational programs is accurate and of high quality. Demonstrate stream-monitoring methodologies that are practicable, efficacious, and efficient in remote locations used by recreational horses. Provide on-site workshops in horse trail design, installation, and evaluation, and water quality assessment of horse trail impacts.

**Outcome Measures:**

Develop and deliver educational programs on the nature-based tourism industry to approximately 155 recreation and tourism operators, Extension county agents and administrators, government officials, land management, agency personnel, and citizens.

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Natural Resources

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**1486 Natural Resources and Environmental Research and Education: Alternative Income Opportunities for Landowners**

Conducts statewide educational programs to assist landowners in developing alternative income sources from natural resources, with a focus on wildlife resources. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$160,277	\$91,323	\$38,954	Yes	\$30,000	3.03

**Expected Results:**

Develop and conduct educational programs for farm and forest landowners, Extension agents, and natural resource professionals on alternative income opportunities from natural resources, with an emphasis on wildlife resources. Begin development of the Pee Dee Research & Education Center as a demonstration site for integrated farm, forest and wildlife management illustrating both management and income opportunities from wildlife.

**Outcome Measures:**

Develop and deliver educational programs on alternative income opportunities to approximately 800 farm and forest landowners, Extension agents, and natural resource professionals.

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**Functional Group:** Conservation,  
Natural Resources

**1487 Natural Resources and Environmental Research and Education: Water Quality and Quantity**

Conducts statewide research and educational programs to address the impacts of land use on water quality and quantity, and to promote Best Management Practices (BMP's) for homeowners, farmers, landowners, municipal officials, volunteers, and youth. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$998,951	\$575,198	\$319,954	Yes	\$103,799	15.90

**Expected Results:**

Conduct research to develop best management practices that protect and improve water quality. Develop and deliver education programs to encourage homeowners, agricultural producers, and municipal and local government officials to adopt practices that reduce pollution and improve water quality. Programs for homeowners, farmers, and land owners include South Carolina Home-A-Syst, Farm-A-Syst and Coast-A-Syst programs, and the newer Stream-A-Syst and Forest-A-Syst. The educational program for municipal officials is Project NEMO - Nonpoint Education for Municipal Officials. Develop and deliver educational programs on stream restoration and water quality protection, including the installation of riparian buffers and other environmentally appropriate plantings to protect water quality. Develop and deliver water quality education programs for youth, such as 4H2O Pontoon Classroom, and Canoe Classroom.

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**Outcome Measures:**

Develop and deliver educational programs on water quality to approximately 6,000 homeowners, farmers, landowners, municipal officials, volunteers, and youth. Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications.

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**Agency:** P20 - Clemson PSA**Functional Group:** Conservation,  
Natural Resources**1488 Natural Resources and Environmental Research and Education**

Conducts statewide research to protect and enhance the wildlife, soil and natural resources in South Carolina. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$1,512,221	\$992,860	\$360,871	Yes	\$158,490	26.61

**Expected Results:**

Conduct research to: Develop agriculture and forestry practices that protect wildlife and the environment, and reduce forest fuel load, Develop techniques for managing forest drainage systems, Determine the toxicity of metals and pesticides to aquatic animals and the impacts of non-point source pollution on wildlife, Develop sensors, tools and methodologies for soil pest and water management to enhance environmental sustainability

**Outcome Measures:**

Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications.

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**Agency:** P20 - Clemson PSA**Functional Group:** Conservation,  
Natural Resources**1489 Sustainable Agricultural Production Systems: Nutraceutical Crops**

Conducts statewide research and educational programs to improve the production efficiency, environmental sensitivity, and profitability of nutraceutical crop management systems. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$538,359	\$359,813	\$112,660	Yes	\$65,886	9.61

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**Expected Results:**

Conduct research and education programs to develop crop management and harvesting techniques that improve the production efficiency and profitability of nutraceutical crops.

**Outcome Measures:**

Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1490 Sustainable Agricultural Production Systems: Organic Crops**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of organic crop management systems. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

<b>FY 2004-05</b>					
<b>Total</b>	<b>General Funds</b>	<b>Federal Funds</b>	<b>FM</b>	<b>Other Funds</b>	<b>FTEs</b>
\$122,055	\$74,036	\$29,324	Yes	\$18,695	2.34

**Expected Results:**

Conduct research and educational programs to: Develop crop management information about the promising niche market of organic farming. Disseminate information on organic farming systems to current growers and growers interested in adopting organic practices.

**Outcome Measures:**

Develop and deliver educational programs on organic crop production systems to approximately 780 organic growers, growers interested in transitioning to organic farming systems, educators, and others interested in organic production. Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications.

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**Functional Group:** Conservation,  
Natural Resources

**1491 Reducing the Impact of Animal Agriculture on the Environment**

Clemson PSA is the sole source for providing training as required by law for all livestock and poultry producers to receive their waste permit. This program reduces the environmental impact of animal waste through statewide research and education programs for animal agriculture producers. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$505,012	\$272,310	\$147,001	Yes	\$85,701	9.32

**Expected Results:**

Develop and demonstrate new, cost-effective technologies and practices to reduce the environmental impacts of animal agriculture. Develop and deliver education programs to train and certify animal facility operators and to educate livestock producers on environmentally sound manure treatment, storage and utilization systems, and methods to reduce sediment loading of streams from pastures, loafing areas, and land application sites. (Confined Animal Manure Management)

**Outcome Measures:**

Develop and deliver educational programs to train or certify approximately 2,000 livestock producers in animal waste management.

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**Functional Group:** Conservation,  
Natural Resources

**1492 Agro Medicine (pass-thru)**

The S C Agromedicine Program is a cooperative effort between the Medical University of SC (MUSC) and Clemson's Cooperative Extension Service. It provides: 1) Education to physicians, nurses & other health care workers who serve the farming community about farm-related health issues (e.g. pesticide poisoning, insect/spider bites, fire ant sting reactions, noise-induced hearing loss, etc.); 2) Education to pest-control operators, mosquito abatement officials & other agriculture workers regarding health effects of pesticides, risk & personal protection; 3) Education regarding food quality / food safety and farm safety issues; 4) Research on farm-related health issues; and 5) Services such as telephone consultations to physicians, the Cooperative Extension Service and individual patients on farm-related health issues. Agromedicine was established as a separate program within Clemson-PSA by the FY 1986 - 1987 Appropriations Act. Funds appropriated to PSA for Agromedicine are transferred to MUSC annually under a contractual agreement.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$204,084	\$177,247	\$0	N/A	\$26,837	

**Expected Results:**

The availability of teaching, research and service in the area of agromedicine should improve the diagnosis and treatment of agriculture-related health problems, accuracy of the public's perceptions of food quality and safety and pesticide health effects, and the overall safety of the farm population.

**Outcome Measures:**

Because the Agromedicine Program addresses concerns shared by other groups, improvements in health outcomes are the result of many activities within and outside the Cooperative Extension Service. In FY '03-'04, the program provided 288 Individual "Public Service Consultations" by the Agromedicine Program staff; conducted 30 presentations to a total audience of approximately 900; and published the fifth in a series of articles on acute pesticide poisoning, showing the continued decline in occupational pesticide poisoning in South Carolina. (MUSC is the appropriate agency to identify Outcome Measures for this activity.)

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Natural Resources

**1493 Agricultural Biosecurity**

The lead agency in South Carolina to provide coordination of statewide surveillance for naturally occurring and introduced diseases and pests of agricultural plants and animals. In addition, educational programs are developed and implemented for disaster preparedness, prevention, and mitigation for livestock and other animals, whether those disasters are natural or man-made. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$97,554	\$65,200	\$20,414	Yes	\$11,940	1.81

**Expected Results:**

Improve local, state, and regional capabilities to detect, recognize, diagnose, and prevent agroterrorism and threats to agricultural systems by foreign animal diseases, foreign plant diseases, or other disasters that threaten agriculture or food safety.

**Outcome Measures:**

This is a new activity that was established this year so no statistics are available; however, measures will include: Establish and support local and regional agroterrorism emergency response capabilities. Assist Livestock-Poultry Health personnel in the development of County Animal/Agriculture Response Teams (CART) and the State Animal/Agriculture Response Team (SART). Conduct research and training in biosecurity issues, animal and plant disease recognition and identification, and mitigation of agroterrorism attacks. Collaborate with other state agencies to develop a system to alert state officials of biosecurity emergencies. Produce and disseminate educational information for county and state officials through training articles, fact sheets, bulletins, newsletters and other publications. Produce and disseminate information for the public through radio programs and web sites.

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**Functional Group:** Conservation,  
Natural Resources

**1494 Environmental Horticulture Education**

Conducts statewide research and education programs to increase the use of environmentally sound horticultural practices and to protect the quality of the state's soil, air, and water. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$579,287	\$308,056	\$160,909	Yes	\$110,322	10.62

**Expected Results:**

Conduct research and educational programs to inform horticulture professionals, master gardeners, and consumers on environmentally sound horticultural practices.

**Outcome Measures:**

Develop and deliver information on environmentally sound horticultural practices to approximately 45,000 consumers and horticulture professionals through educational programs, horticulture centers, Master Gardener programs, and the Home & Garden Information Center's toll-free telephone line. In addition, information will be delivered to an average of 25,000 listeners through public radio programs, while many more will receive information on the web site. Train 800 new Master Gardeners and provide 38,000 hours of statewide community service work by Master Gardener volunteers.

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Natural Resources

**1495 Agricultural Biotechnology**

Conducts biotechnology research and shares research findings for commercial development through patents and licenses to build the knowledge-based economy. Mass-produces genetic reference libraries for research using high-end robots, sequencers, and physical mapping equipment. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$1,364,356	\$1,020,274	\$319,454	Yes	\$24,628	16.65

**Expected Results:**

Discover and apply significant biotechnology products and processes to improve agriculture, the environment, and human health. Patent and license research discoveries for commercial application to build the knowledge-based economy in South Carolina. Collaborate with SC BIO and the Department of Commerce to recruit biotech companies and assist with new company start-ups.

**Outcome Measures:**

Discoveries in biotechnology products and processes will be disclosed through research publications and patents, and will be available for commercial application through license agreements. New employment opportunities will be created through biotechnology business recruitment and new company start-ups.

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**1496 Risk Management Systems for Agricultural Firms**

Provides statewide economic analyses of agricultural enterprises and technologies and educational programs to assist farm managers in developing viable business systems. In addition, risk management research is conducted and information is disseminated to agricultural managers. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$1,251,896	\$665,738	\$447,741	Yes	\$138,417	22.84

**Expected Results:**

Conduct statewide research and educational programs on agricultural market assessment and appropriate marketing strategies for agricultural commodities in South Carolina.

**Outcome Measures:**

Develop and deliver educational programs on risk management for approximately 2,500 farm and agribusiness managers.

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Natural Resources**1497 Integrated Pest Management (IPM) for Agriculture and Forestry**

Conducts statewide research and education programs to identify alternative pest control strategies for field crops and landscape/ornamental plants and to reduce dependence on the use of agricultural chemicals by increasing the use of biological controls. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$1,502,890	\$943,791	\$344,936	Yes	\$214,163	26.23

**Expected Results:**

Agricultural producers and producers of landscape and ornamental plants in South Carolina will adopt and utilize integrated pest management (IPM) practices that will reduce the number of pesticides and increase the value of South Carolina's agricultural products.

**Outcome Measures:**

Conduct statewide research and deliver educational programs on integrated pest management to approximately 1500 agricultural producers.

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**1498 Sustainable Forestry Management and Environmental Enhancement**

Conducts statewide research and education programs for public, private, and commercial forest landowners to improve the use of forest management practices that are environmentally sound and economically sustainable. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$2,672,748	\$1,885,723	\$485,246	Yes	\$301,779	39.97

**Expected Results:**

Research programs will develop best management practices that promote sustainable use and management of forest resources. Educational programs, such as Master Tree Farmer and Master Woodland Owner, will encourage landowners to adopt and use these practices.

**Outcome Measures:**

Develop and deliver educational programs on sustainable use and management of forest resources to approximately 2,000 forest landowners.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1499 Natural Resources and Environmental Research and Education: Nuisance Species**

Conducts statewide research and education programs to effectively address and minimize problems with nuisance species that cause significant economic, health and human safety concerns in South Carolina. These species include beaver, muskrat, otter and Canada Geese that can have significant impacts on water quality and consequently human health due to E.Coli and other bacteria from waste. Additionally, dam building and flooding by beavers can cause tremendous degradation of water quality in watersheds from silt, as well as flooding problems in waste water treatment facilities. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$215,354	\$114,522	\$59,819	Yes	\$41,013	4.24

**Expected Results:**

Develop and deliver education programs for landowners, homeowners, nuisance wildlife control operators, natural resource professionals, and county Extension agents on controlling problem wildlife, particular those species that negatively affect water quality. Provide a source of information for phone calls and emails

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concerning wildlife problems.

**Outcome Measures:**

Develop and deliver educational programs on nuisance species to approximately 1,400 landowners, homeowners, nuisance wildlife control operators, natural resource professionals, and Extension agents.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1500 Rural Community Public Issues Education**

Conducts educational programs on public issues management and certifies facilitators to lead local efforts. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$136,673	\$72,680	\$37,964	Yes	\$26,029	2.69

**Expected Results:**

Develop and deliver educational programs on facilitation skills and best practices of conflict resolution for use in public meetings and public forums. (Public Issues Management School) Partner with state agencies and private interest groups to offer training in facilitation, negotiation, conflict resolution and management, and mediation. Prepare educational materials for the public (print, video, television, and radio) to promote understanding of public issues.

**Outcome Measures:**

Develop and deliver educational programs on public issues to approximately 1,400 state, federal, and local agency personnel, association members, and citizens.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1501 Natural Resources and Environmental Research and Education: Coastal Natural Hazards**

Conducts statewide research and education programs to protect the state's coastal residents from natural disasters, including hurricanes, wind, water and earthquakes. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

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FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$143,570	\$76,349	\$39,879	Yes	\$27,342	2.83

**Expected Results:**

Develop and evaluate innovative construction techniques to enable residential and low rise commercial structures to better withstand a variety of coastal hazards, including wind, water and earthquake. Develop and deliver education programs on coastal storm planning and preparedness, and hazard resistant coastal construction techniques.

**Outcome Measures:**

Develop and deliver educational programs on coastal hazard management to approximately 1,200 coastal residents, business owners, building professionals, engineers, architects, state and local government officials, and Extension agents.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

### 1502 Rural Community Economic Development

Conducts statewide programs to enhance economic development through workforce analysis, business development strategies and policy formation, and surveys to enhance workforce preparedness and business retention efforts. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$1,332,925	\$850,848	\$399,355	Yes	\$82,722	21.84

**Expected Results:**

Conduct county-based programs annually to increase business retention and expansion and workforce preparation, focusing on the least-developed counties. Convey community and regional economic impact assessment data to business leaders and economic development organizations. Provide county and municipal leaders with socio-economic trend and pattern data to support local economic development strategic planning efforts.

**Outcome Measures:**

Develop and deliver educational programs on business retention and enhancement to approximately 4,200 business and workforce preparation agencies and leaders.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**Agency Activity Inventory**  
**by Agency**  
**Appropriation Period: FY 2004-05**

**1503 Livestock-Poultry Health Programs: Meat Inspection**

Inspects and tests meat and poultry processing operations in South Carolina to ensure the safety of the state's food products of animal origin. Sections 47-4-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to perform these duties as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$2,723,802	\$1,321,901	\$1,321,901	Yes	\$80,000	42.08

**Expected Results:**

Develop and present a comprehensive training course for all inspection personnel to ensure as safe a meat supply as possible in South Carolina.

**Outcome Measures:**

Provide inspectors the technical framework to review the Hazard Analysis and Critical Control Point (HACCP) system of official establishments to determine if they are in compliance with Title 9, Code of Federal Regulations, Part 417, HACCP Systems and require corrective action for deficiencies.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1504 Livestock-Poultry Health Programs: Animal Health and Diagnostic Laboratory**

Provides statewide surveillance for diseases that affect both humans and other animals, and provides the diagnostic expertise for treatment and eradication of disease of domestic animals. Provides veterinary diagnostic laboratory facilities and expertise to assist state veterinarians in diagnosing diseases found in companion and food animals, as well as in wildlife. Serves as the primary agency for ESF-17 in the State Emergency Operations Plan; provide multi-agency coordination of statewide animal emergency response plans to protect livestock and wildlife, and to support public health and safety. Sections 47-4-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to perform these duties as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$1,051,159	\$565,440	\$0	N/A	\$485,719	31.25

**Expected Results:**

Ensure the safety and health of humans and other animals in South Carolina. Maintain the state's disease-free status by the U.S. Department of Agriculture (USDA) for cattle brucellosis, swine brucellosis, classical swine fever, pseudo-rabies, tuberculosis, and pullorum-typhoid. Maintain a full-time staff of employees who are trained and demonstrate proficiency in specific tests certified by USDA laboratories. Maintain adequate funding, professional and technical staff, facilities and information resources to meet accreditation standards by the American Association of Veterinary Laboratory Diagnosticians (AAVLD). Coordinate the Animal Emergency Response with the County Animal Response Teams (CART), Extension Service, and multi-state agencies.

**Outcome Measures:**

Monitor livestock/poultry health in state to meet requirement of maintaining certified free status in appropriate

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disease areas. Monitor and enforce livestock/poultry interstate movement/commerce requirements. Pass the AAVLD Accreditation Review. Pass proficiency testing certifications. Develop regional County Animal Response Teams (CART).

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**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1505 Regulatory and Public Service Programs: Plant and Seed Certification**

Carries out statewide mandated programs for plant and seed certification ensure the quality of fertilizer and lime; the prevention and control of introduced plant pests and pests of honey bees; certification of seed purity/germination; certification for organically produced plants; and certification of freedom from plant pests in nursery, greenhouse and transplants. These mandated services also administer quality assurance/identity preservation for transgenic crops. Since September 11th, the mandate also includes Homeland Security. Our mission is to prevent, mitigate, and respond to agroterrorism. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$1,228,737	\$784,205	\$256,806	No	\$187,726	31.33

**Expected Results:**

Through statewide educational enforcement of legislative mandates: Fertilizer and lime will be of a higher quality. Fewer or mitigated introductions of invasive plant pests will occur. Nursery and greenhouses will sell plants with fewer insects or disease pests. There will be less likelihood of agroterrorism. Administration of genetic and quality standards for certification of seed and vegetatively propagated materials will ensure less chance of cross contamination. Inspection and certification of plant industry products will allow national and global sales and will support the organic produce industry. Homeland Security will be enhanced through regulation of the sale of fertilizer to reduce the likelihood of its misuse by terrorists.

**Outcome Measures:**

Inspect and certify seed for purity to maintain a minimum of 95% of all seed lots inspected meeting S.C. Certification Standards. Certify plant commodities for shipment by responding to phytosanitary requests within a one week timeframe and maintain an acceptance rate above 94%. Certify freedom from plant pests in commercial greenhouses, nurseries, dealers, and turf/sod farms by conducting one inspection annually of each licensed dealer. Prevent and mitigate invasive species, concentrating on sudden oak death and tropical soda apple introductions. Sample fertilizer and enforce statute to maintain deficiency rate of less than 20%. Through regulatory efforts, reduce the threat of agroterrorism.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**Agency Activity Inventory**  
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**1506 Boll Weevil Eradication Programs (pass-thru)**

Mandated service to administer boll weevill eradication program.

Total	General Funds	FY 2004-05 Federal Funds	FM	Other Funds	FTEs
\$134,974	\$134,974	\$0	No	\$0	

**Expected Results:**

Fewer or mitigated boll weevil infestations will occur

**Outcome Measures:**

Prevent and mitigate boll weevil infestations

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1507 Regulatory and Public Service Programs: Pesticide Regulation**

Carries out statewide mandated programs for pesticide regulation ensure safe and legal use of pesticides and administer pesticide container recycling programs. Since September 11th, the mandate also includes Homeland Security. Our mission is to prevent, mitigate, and respond to agroterrorism. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

Total	General Funds	FY 2004-05 Federal Funds	FM	Other Funds	FTEs
\$1,494,230	\$358,921	\$385,209	No	\$750,100	34.09

**Expected Results:**

Through statewide educational enforcement of legislative mandates: Pesticide exposure and misuse will be reduced. Groundwater contamination from pesticides will be reduced. S.C. structures will be better protected from insect attack. Homeland Security will be enhanced through regulation of the use of pesticides to reduce the likelihood of misuse by terrorists.

**Outcome Measures:**

Reduce S.C. pesticide misuse by making over 2,000 inspections to ensure safe pesticide use and structural pest control compliance with pesticide labels, and state and federal law. Through regulatory efforts, reduce the threat of agroterrorism.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

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**1508 4-H and Agricultural & Natural Resource Programs for Youth**

Conducts statewide 4-H and research-based agriculture and natural resources education for youth. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$7,715,343	\$4,038,410	\$1,292,774	Yes	\$2,384,159	147.35

**Expected Results:**

Develop and deliver 4-H and other programs to educate families and youth across the state, particularly in the areas of agriculture and natural resources, leadership, service learning, financial and other resource management.

**Outcome Measures:**

Conduct education programs that reach approximately 65,000 youth and their families, with help from 2,000 trained volunteers.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1509 Food Safety and Nutrition**

Conducts statewide research and education programs for farmers, food-handling employees, and consumers to ensure the safety and enhance the nutritional value of agricultural food products. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$5,169,896	\$2,879,970	\$1,989,625	Yes	\$300,301	94.19

**Expected Results:**

Conduct research and education programs to identify practices to minimize the risk of pesticide residue and of food-borne illness outbreaks caused by improper handling of agricultural products. Develop and deliver educational information and programs on safe food-handling practices to minimize the number of food-borne illness outbreaks. These programs are for food processors and for food service facilities, such as schools, daycare facilities, soup kitchens, and restaurants. (Serv-Safe) Develop and deliver education programs for consumers to help them develop healthy food choices and skills in selecting foods to prevent obesity and improve health (EFNEP Expanded Family and Nutrition Education Program and LINC Food Stamp Nutrition Education Project).

**Outcome Measures:**

Provide information and education programs on safe food-handling practices and healthful food choices to approximately 38,000 people. Of this total, 30,000 consumers will receive food and nutrition information; while 8,000 agricultural producers, commercial food handlers, processing and packing industry employees, and consumers will attend safe food-handling education programs. In addition, information will be delivered to an

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average of 25,000 listeners through public radio programs.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1510 Sustainable Agricultural Production Systems: Animal Production Systems**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of animal production systems. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$4,562,550	\$2,839,766	\$1,057,791	Yes	\$664,993	80.45

**Expected Results:**

Conduct research and educational programs to: Improve the production efficiency of confined animal systems. Improve grazing management practices for increased efficiency of production. Improve marketing of grazing livestock. Protect water quality in and running off from pastures. Provide information on current and emerging specialty animal industries. Increase awareness of the impact of herd health and reproduction on economic efficiency.

**Outcome Measures:**

Develop and deliver educational programs on sustainable animal production systems to approximately 13,000 agricultural producers, Extension and other agency personnel. Share research discoveries of new production processes and procedures through disclosures, patents, licenses, and publications.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1511 Natural Resources and Environmental Research and Education: Urban wildlife**

Conducts statewide research and education programs to create and maintain ecologically significant habitats (including waterways and forests) in and around urban areas as traditional wildlife habitats are lost. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$53,838	\$28,630	\$14,955	Yes	\$10,253	1.06

**Expected Results:**

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Examine urban wildlife planning issues from the macro level (regions, states, counties, and cities) to the individual site. Educate involved stakeholders on the diverse issues and concerns involved in attracting and/or managing wildlife in urban and suburban areas. Encourage community and governmental leaders to plan for urban wildlife greenspaces and waterways as part of a national effort. Assist in the development and implementation of urban wildlife plans and models for municipalities and developers, including greenspaces, waterways and forests.

**Outcome Measures:**

Develop and deliver educational programs on urban wildlife management to approximately 1,400 landowners, homeowners, nuisance wildlife control operators, natural resource professionals, and Extension agents.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1512 Growth and Population Research and Education**

Conducts applied research and education on population growth and its impact on urban planning and land use in coastal South Carolina. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

		FY 2004-05			
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$27,335	\$14,536	\$7,593	Yes	\$5,206	0.54

**Expected Results:**

Address the growing information needs of the resource management and planning community through spatial technology products. Create visual products that enhance environmental knowledge, social science and policy education. Make complex spatial analysis understandable to a wider audience and transfer this information via the World Wide Web and network resources.

**Outcome Measures:**

Present information to coastal non-governmental organizations on how to utilize growth model results in coastal policy discussions. Present information to coastal county planners on how to incorporate the coastal growth model into comprehensive planning. Conduct a workshop with Coastal Carolina University on how to utilize the growth model in watershed management and planning. Conduct a workshop with the S.C. Coastal Futures Commission on how to incorporate coastal growth patterns into the Department of Health and Environmental Control's Ocean and Coastal Resource Management planning.

**Agency:** P20 - Clemson PSA

**Functional Group:** Conservation,  
Natural Resources

**1513 Community and Economic Affairs Research and Education**

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Conducts applied research and education in public policy areas to promote discussion and action on critical economic development issues facing South Carolina, the Southeast and the nation. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$300,577	\$159,897	\$83,420	Yes	\$57,260	5.92

**Expected Results:**

Address local, state and regional and international policy issues through research. Provide information about emerging and current issues to policy makers and citizens, including information on data and data sources. Promote the discussion of policy options. Prepare reports and present workshops profiling South Carolina communities. Develop and provide methodologies for community enhancement and development. Conduct studies and make presentations on government finance, annexation, consolidation, tax policy, fiscal impact issues, economic development policy, planning, infrastructure investment, community planning and nature-based tourism. Provide expertise by participation in local, state, and regional initiatives. Promote volunteerism through support of the S.C. Association for Volunteer Administration.

**Outcome Measures:**

Develop and deliver educational programs to approximately 40 community, nonprofit and civic organizations throughout the state and region on emerging demographic and economic trends. Present information on a weekly basis via state-wide public radio on trends and topic influencing life in South Carolina (approximately 25,000 listeners weekly). Present information on taxation, economic development, infrastructure needs, and natural resources via the news media throughout the state and region. Involve staff on at least three commission, boards and task forces within South Carolina.

**Agency:** P20 - Clemson PSA**Functional Group:** Conservation,  
Natural Resources**1514 Sustainable Agricultural Production Systems: Agronomic Crops**

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of agronomic crop management systems. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs
\$5,788,002	\$3,570,126	\$1,354,018	Yes	\$863,858	101.27

**Expected Results:**

Conduct research and educational programs to: Improve profitability of agronomic cropping systems. Reduce negative environmental impacts of agronomic cropping systems. Encourage adoption of new agronomic production systems. Encourage adoption of alternative methods of nutrient and pest management.

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**Outcome Measures:**

Develop and deliver educational programs on agronomic crop production to approximately 9,600 agricultural producers, Extension and other agency personnel. Share research discoveries of new agricultural products, policies and procedures through disclosures, patents, licenses, and publications.

**Agency:** P20 - Clemson PSA**Functional Group:** Conservation,  
Natural Resources**1515 Household and Structural Pest Control and Pesticide Training**

Clemson PSA is the sole source for statewide training and certification of pest control professionals. Sections 46-7-30 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

	FY 2004-05					
Total	General Funds	Federal Funds	FM	Other Funds	FTEs	
\$778,871	\$414,191	\$216,348	Yes	\$148,332	14.23	

**Expected Results:**

Conduct statewide educational programs to identify, prevent and correct health and structural problems related to household pests and wood-destroying organisms in the home and work environment through training and education. Provide pesticide training programs for S.C. applicators (private and commercial) to protect applicators and the general public from misuse of pesticides.

**Outcome Measures:**

Approximately 4,000 building owners and pest control professionals will be trained in safe methods to reduce damage by wood-destroying insects. Of these participants, approximately 1,800 will be professional pesticide applicators.

**AGENCY TOTALS***Clemson PSA*

TOTAL AGENCY FUNDS	TOTAL GENERAL FUNDS	TOTAL FEDERAL FUNDS	TOTAL OTHER FUNDS	TOTAL FTEs
\$57,401,441	\$34,921,324	\$13,320,254	\$9,159,863	991.75